# Macro economics

STEPHEN L. SLAVIN

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# Macroeconomics

# Stephen L. Slavin

Union County College Cranford, New Jersey The New School for Social Research New York City



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## **MACROECONOMICS**

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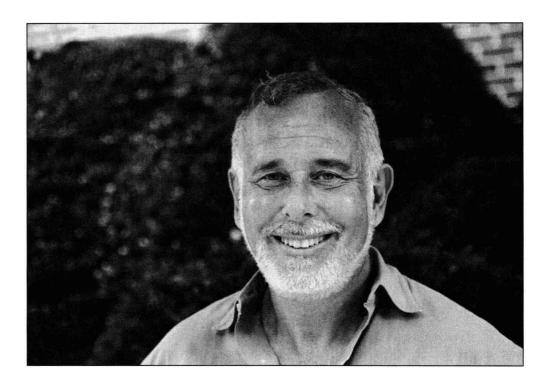
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# ABOUT THE AUTHOR



Stephen L. Slavin received his B.A. in economics from Brooklyn College and his M.A. and Ph.D. in economics from New York University. He has taught at New York Institute of Technology, Brooklyn College, St. Francis College (Brooklyn), and in the M.B.A. program at Fairleigh Dickinson University, and he now teaches at the New School for Social Research in New York City and at Union County College in Cranford, New Jersey.

He has written eight other books: The Einstein Syndrome: Corporate Anti-Semitism in America Today (University Press of America); Jelly Bean Economics: Reaganomics in the Early 1980s (Philosophical Library); Economics: A Self-Teaching Guide, All the Math You'll Ever Need, Math for Your First- and Second-Grader, Quick Business Math: A Self-Teaching Guide (all four published by John Wiley & Sons); Chances Are: The Only Statistics Book You'll Ever Need (University Press of America); and Everyday Math in 20 Minutes a Day (LearningExpress). He is the co-author of two other Wiley books, Practical Algebra and Quick Algebra Review.

Dr. Slavin's articles have appeared in Studies in Family Planning, Economic Planning, Journal of BioSocial Science, Business and Society Review, Bankers Magazine, Education for Business, Public Management, Better Investing, Northwest Investment Review, U.S.A. Today Magazine, Patterns in Prejudice, Culturefront, and Conservative Review. In addition, he has written more than 500 newspaper commentaries on public policy, demographic economics, politics, urban economics, international trade, investments, and economic fluctuations.

# PREFACE TO THE INSTRUCTOR

ore than 25 years ago, while still a graduate student, I got a part-time job helping to ghostwrite an introductory text for a major publisher. I asked my editor why so many economics texts were ghostwritten. She smiled and said, "Economists can't write."

Economics can be a rather intimidating subject, with its extensive vocabulary, complicated graphs, and quantitative tendencies. Is it possible to write a principles text that lowers the student's anxiety level without watering down the subject matter? To do this, one would need to be an extremely good writer, have extensive teaching experience, and have solid academic training in economics. In this case, two out of three is just not good enough.

Why did I write this book? Probably my moment of decision arrived about nine years ago when I mentioned to my macro class that Kemp-Roth cut the top personal income tax bracket from 70 percent to 50 percent. Then I asked, "If you were rich, by what percentage were your taxes cut?"

The class sat there in complete silence. Most of the students stared at the blackboard, waiting for me to work out the answer. I told them to work it out themselves. I waited. And I waited. Finally, someone said, "Twenty percent?"

"Close," I replied, "but no cigar."

"Fourteen percent?" someone else ventured.

"No, you're getting colder."

After waiting another two or three minutes, I saw one student with her hand up. One student knew that the answer was almost 29 percent—*one* student in a class of 30.

When do they teach students how to do percentage changes? In high school? In junior high or middle school? Surely not in a college economics course.

How much of *your* time do you spend going over simple arithmetic and algebra? How much time do you spend going over simple graphs? Wouldn't you rather be spending that time discussing economics?

Now you'll be able to do just that, because all the arithmetic and simple algebra that you normally spend time explaining are covered methodically in this book. All you'll need to do is tell your students which pages to look at.

The micro chapters offer scores of tables and graphs for the students to plot on their own; the solutions are shown in the book. This will cut down on the amount of time you'll need to spend putting these problems on the board.

As an economics instructor these last 31 years at such fabled institutions as Brooklyn College, New York Institute of Technology, St. Francis College (Brooklyn), and Union County College, I have used a variety of texts. But each of their authors assumed a mathematical background that the majority of my students did not have. Each also assumed that his graphs and tables were comprehensible to the average student.

The biggest problem we have with just about any book we assign is that many of our students don't bother to read it before coming to class. Until now, no one has written a principles text in plain English. I can't promise that every one of your students will do the readings you assign, but at least they won't be able to complain anymore about not understanding the book.

## **Distinctive Qualities**

My book has six qualities that no other principles text has.

- It reviews math that students haven't covered since middle school and high school. (See, e.g., the box, "A Word About Numbers," Chapter 5, page 82, or "Calculating Percentage Changes," Chapter 8, page 166.)
- 2. It's an interactive text, encouraging active rather than passive reading.
- It's a combined textbook and workbook. Each
  chapter is followed by workbook pages that include
  multiple-choice and fill-in questions, as well as
  numerical problems.
- 4. It costs less than virtually every other text on the market. The fifth edition has the lowest list price on the market for this combined textbook-workbook.
- 5. It's written in plain English without jargon. See for yourself. Open any page and compare my writing style with that of any other principles author. This book is written to communicate clearly and concisely with the students' needs in mind.
- 6. It is written with empathy for students. My goal is to get students past their math phobias and fear of graphs by having them do hundreds of problems, step-by-step, literally working their way through the book. Students learn economics best by actively "doing."

## **Current Economic News**

The study of economic needs to be conducted within an empirical context. We start, in Chapter 1, with a brief economic history of the United States. In virtually every chapter that follows, we weave current economic news into the discussion. We look at the aftermath of the collapse of the Soviet empire in Chapter 4. In Chapter 11, we talk about the disappearing federal budget deficit, and its implications on fiscal policy.

The Welfare Reform Act of 1996 was the most farreaching piece of welfare legislation since the New Deal. Its requirements and their possible effects are discussed in Chapter 17. And finally, in Chapter 19, we look at the Asian financial crisis that has centered in South Korea, Thailand, and Indonesia. After the 1995 Mexican peso crisis and current one in East Asia, one wonders where and when the next crisis will occur.

# **Special Features**

Three special features of my book are its integrated coverage of the global economy, its extra help boxes, and its advanced work boxes.

## **The Global Economy**

Until the early 1970s our economy was largely insulated from the rest of the world economy. All of this changed with the oil price shock of 1973, our subsequent growing appetite for fuel-efficient Japanese compact cars, as well as for TVs, VCRs, camcorders, and other consumer electronics made in Asia. As our trade deficits grew, and as foreigners bought up more and more American assets, every American became quite aware of how integrated we had become within the global economy.

Traditionally, principles texts included a couple of chapters at the back of the book on international trade and finance. However, in recent years it has become very apparent to authors that we needed to integrate international material throughout our texts. The fifth edition of my own text follows this practice, and more than ten percent of the book deals specifically with the global economy.

Here are some of the things we look at:

- The "Isms": Capitalism, Communism, Fascism, and Socialism (Ch. 4, p. 72)
- China: The Premier Communist Power (Ch. 4, p. 75)
- Why the Japanese Savings Rate Has Been So High (Ch. 5, p. 83)
- Foreign Investment in the United States (Ch. 6, p. 117)
- The Cost of Living in the U.S. and Russia: An Alternate Comparison (Ch. 8, p. 172)
- The Effectiveness of Monetary Policy in an Open Economy (Ch. 13, p. 324)
- How the Japanese Drove American T.V. Manufacturers Out of Business (Ch. 18, p. 460)
- The Asian Financial Crisis (Ch. 19, p. 479)
- Will Foreigners Soon Own America? (Ch. 19, p. 484)

## **Extra Help Boxes**

Students taking the principles course have widely varying backgrounds. Some have no problem doing the math or understanding basic economic concepts. But many others are lost from day one.

I have provided dozens of extra help boxes for the students who need them. They are especially useful to instruc-

tors who don't want to spend hours of class time going over material that they assume should be understood after one reading.

Of course these boxes can be skipped by the better prepared students.

Here are some of the topics covered in the extra help boxes:

- Read only if you still don't understand why C is 1,000 (Ch. 5, p. 89)
- More on finding autonomous and induced consumption (Ch. 5, p. 94)
- Calculating percentage changes (Ch. 8, p. 166)
- Read only if you're not sure how to calculate the unemployment rate (Ch. 9, p. 192)
- Finding percentage changes in the price level (Ch. 9, p. 199)
- Differentiating between the deficit and the debt (Ch. 11, p. 263)
- Finding the percentage of income share of the quintiles in Figure 1 (Ch. 17, p. 403)

## **Advanced Work Boxes**

There are some concepts in the principles course that many instructors will want to skip. (Of course, if they're not included in principles texts, this will make some instructors quite unhappy.) These boxes are intended for the better prepared students who are willing to tackle these relatively difficult concepts.

Here is a sampling of my advanced work boxes:

- Post-World War II recessions (Ch. 1, p. 13)
- APCs greater than one (Ch. 5, p. 86)
- Progressive in name vs. progressive in effect (Ch. 7, p. 134)
- Why NNP is better than GDP (Ch. 8, p. 161)
- The accelerator principle (Ch. 9, 187)
- The paradox of thrift (Ch. 11, p. 256)
- Three modifications of the deposit expansion multiplier (Ch. 13, p. 316)
- Rational expectations vs. adaptive expectations (Ch. 14, p. 347)
- The negative income tax (Ch. 17, p. 423)

# **Changes in the Fifth Edition**

Two basic ways my book is different from all other principles texts is that it is a smoother read and it is interactive. The fifth edition improves on these features.

Most of the really hard stuff is in advanced work boxes and appendices. This relatively difficult material can be skipped, or perhaps assigned for extra credit. The really easy stuff—e.g., math that should have been learned in high

school—is covered in extra help boxes. These boxes save professors hours of valuable class time. For example, students who can't figure out percentage changes can get help from the boxes on pages 166 and 199. In the fifth edition I've added a dozen new boxes. I've also moved the equation of exchange and the quantity theory of money from Chapter 12 (Money and Banking) to Chapter 14 (Twentieth-Century Economic Theory). I wanted to lessen the load of more difficult theory for the student to learn at one time.

Unlike all other principles texts, which encourage passive reading, my book encourages active reading. Students work their way through each chapter, tackling numerical problems, filling in tables, and drawing graphs. Then, at the end of each chapter is a workbook section with multiplechoice and fill-in questions, and problems. In the fifth edition we now have about 100 problem sheets in the Instructor's Manual, which can be torn out, photocopied, and handed out to the students. Let's say a professor assigned the first 10 pages of Chapter 11 (Fiscal Policy and the National Debt). A problem sheet would have a graph and three questions: (1) Is this an inflationary gap or a deflationary gap? (2) How big is it? (3) What two fiscal policy measures would you use to remove it? There's a problem like this in the workbook section of Chapter 11, but this problem comes up at the beginning of a very long chapter. Having these problem sheets saves the professor from having to put this graph on the board and having students spend class time figuring out the answers.

# The Supplement Package

In addition to the workbook, which is built in, *Macroeconomics* has a supplemental package to help students and instructors as they use the text.

## Instructor's Manual

I prepared the instructor's manual to give instructors ideas on how to use the text. The manual includes a description of the textbook's special features, a chapter-by-chapter discussion of material new to the fifth edition, and a rundown of chapter coverage to help instructors decide what they can skip. The answers to the workbook sections of the text are in this manual. New to this edition in the IM are over 30 problem sets designed to supplement almost every chapter.

# Test Bank (Micro and Macro Versions)

I have thoroughly revised the test bank so that it offers more than 3,500 questions. Multiple-choice questions, fill-in questions, and problems are classified by degree of difficulty.

# **Teaching Transparencies**

The most important graphs and tables from the text are reproduced as two-color transparencies. Use of these acetates will aid the instructor's classroom presentations and the students' understanding.

## **Computerized Testing**

The Micro and Macro test banks are available in computerized versions, both for IBM-PC and compatibles and for Macintosh computers. Developed by the Brownstone Research Group, this state of the art software has the capability to create multiple tests, "scramble," and produce high-quality graphs.

## **Videos**

A selection of videos is available to adopters, including both tutorial lessons and programs that combine historical footage, documentary sequences, interviews, and analysis to illustrate economic theory. There is also a 15-minute video that explains how to get the most out of the book. This may be played during the first day of class.

# **Acknowledgments**

It is one thing to write an unconventional, even controversial, principles text, and it is quite another to get it published. Gary Nelson, the sponsoring editor at the time my book was signed, saw the project through from its inception to its completion, and I want to thank him for making this book possible. Gary oversaw the development from a bare bones text to a full-fledged principles package.

Paul Shensa, who succeeded Gary Nelson as sponsoring editor, has been a great advocate of my book, both inside and outside the company. I also wish to thank Gary Burke, my publisher, who put together the group that edited and produced the book.

Kezia Pearlman, the developmental editor, saw this project through from the first reviews, the chapter-by-chapter revisions, the test bank revisions, and the dozens of deadlines that we met, to the time the book finally went to press.

Project manager Rob Preskill, with whom I worked day to day, managed the copyediting, artwork, and page proofs, and saw to it that we stayed not just on schedule, but ahead of schedule.

Peter de Lissovoy, the copyeditor with the light touch, suggested hundreds of improvements, large and small, while smoothing out the rough edges of the manuscript.

Francis Owens oversaw the design of the book from cover to cover. Supplements coordinators Louis Swaim and Florence Fong made sure the supplement production process went smoothly.

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I'd also like to thank the many reviewers who helped improve this text over the last four editions.

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Finally, to all adopters of the past four editions, thank you. Your comments and concerns have helped me to write the 1999 edition of *Macroeconomics*.

Stephen L. Slavin

# PREFACE TO THE STUDENT

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hat have you heard about economics? That it's dull, it's hard, it's full of undecipherable equations and incomprehensible graphs? If you were to read virtually any of the introductory economics textbooks, that's exactly what you would find.

How is this book different from all other books? For starters, this is the first economics book that is reader friendly. While you're reading, I'll be right there with you, illustrating various points with anecdotes and asking you to work out numerical problems as we go along.

Are you a little shaky about the math? Your worries are over. If you can add, subtract, multiply, and divide (I'll even let you use a calculator), you can do the math in this book.

How do you feel about graphs? Do you think they look like those ultramodernistic paintings that even the artists can't explain? You can relax. No graph in this book has more than four lines, and by the time you're through, you'll be drawing your *own* graphs.

In nearly every chapter you'll find one or two boxes labeled "Extra Help." Sometimes you can master a concept when additional examples are given. Don't be too proud to seek extra help when you need it. And when you don't need it, you may skip the boxes.

Unlike virtually every other economics text, this one includes a built-in workbook. Even if your professor does not assign the questions at the end of each chapter, I urge you to answer them because they provide an excellent review.

I can't guarantee an A in this course, but whether you are taking it to fulfill a college requirement or planning to be an economics major, you will find that economics is neither dull nor all that hard.

Stephen L. Slavin

# CONTENTS IN BRIEF

Introduction What Is Economics All About, How Do We Use This Book, and Why Is This Book Different from All Other Introductory Economics Textbooks? 1

- **1** A Brief Economic History of the United States 3
- 2 Resource Utilization 25
- 3 Supply and Demand 49
- 4 The Mixed Economy 59
- **5** The Household Consumption Sector 81
- **6** The Business-Investment Sector 103
- **7** The Government Sector 125
- 8 Gross Domestic Product 153
- **9** Economic Fluctuations, Unemployment, and Inflation 183
- **10** Classical and Keynesian Economics 215

- **11** Fiscal Policy and the National Debt 239
- **12** Money and Banking 279
- **13** The Federal Reserve and Monetary Policy 309
- **14** Twentieth-Century Economic Theory 333
- **15** A Guide to Macropolicy 371
- **16** Economic Growth and Productivity 379
- **17** Income Distribution and Poverty 401
- **18** International Trade 433
- **19** International Finance 469

Glossary 491

Index 497

# **CONTENTS**

Introduction What Is Economics All About, How Do We Use This Book, and Why Is This Book Different from All Other Introductory Economics Textbooks? 1	4 The Mixed Economy 59  The Three Questions of Economics 59  The Invisible Hand, the Price Mechanism, and Perfect Competition 61  The Invisible Hand 61
1 A Brief Economic History of the United States 3	The Price Mechanism 62 Competition 63 Equity and Efficiency 63
Introduction 3 Part 1: The American Economy in the 19th Century 4	The Circular Flow Model 64  The Economic Role of Government 66  Market Failure 66  Externalities 66  Lack of Public Goods and Services 67  Capital 68  Specialization and Its Consequences 70  Specialization and Exchange 70  Specialization and Alienation 71  The "Isms": Capitalism, Communism, Fascism, and Socialism 72  The Decline and Fall of the Communist System 75  China: The Premier Communist Power 76  Last Word: The Mixed Economy 78  The Household Consumption
Part 5: From the Vietnam War to the Breakup of the Soviet Empire 15  The Sagging Seventies: The Stagflation Decade 16  The 1980s: The Age of Reagan 16  The State of American Agriculture 17  Part 6: The American Economy near the End of the Century 18	Sector 81  GDP and Big Numbers 81  Consumption 81  Saving 83  Average Propensity to Consume (APC) 84  Average Propensity to Save (APS) 85  Marginal Propensity to Consume (MPC) 86
2 Resource Utilization 25  Economics Defined 25  The Central Fact of Economics: Scarcity 25  Scarcity and the Need to Economize 25  The Economic Problem 26  The Four Economic Resources 26  Opportunity Cost 28  Full Employment and Full Production 28  The Production Possibilities Frontier 31  Productive Efficiency and Allocative Efficiency 34  Economic Growth 35  Appendix: The Law of Increasing Costs 43	Marginal Propensity to Save (MPS) 87 Graphing the Consumption Function 87 The Saving Function 90 What the Consumer Buys 93 Determinants of the Level of Consumption 95  The Level of Disposable Income 96 Credit Availability 96 Stock of Liquid Assets in the Hands of Consumers 96 Stock of Durable Goods in the Hands of Consumers 97 Keeping Up with the Joneses 97 Consumer Expectations 97 The Permanent Income Hypothesis 97 Determinants of the Level of Saving 98 Why Do We Spend So Much and Save So Little? 99
3 Supply and Demand 49	<b>6</b> The Business-Investment Sector 103
Demand 49 Supply 49 Equilibrium 51 Surpluses and Shortages 52 Shifts in Demand and Supply 53	Proprietorships, Partnerships, and Corporations 103  The Proprietorship 103  The Partnership 103  The Corporation 104  Stocks and Bonds 105

此为试读,需要完整PDF请访问: www.ertongbook.com

xii

Capitalization and Control 106	9 Economic Fluctuations,
Investment 107	Unemployment, and Inflation 183
How Does Savings Get Invested? 110	
Gross Investment versus Net Investment 111	Economic Fluctuations 183
Building Capital 112	Is There a Business Cycle? 183
The Determinants of the Level of Investment 113	Cycle Turning Points: Peaks and Troughs 183
(1) The Sales Outlook 113	The Conventional Three-Phase Business Cycle 184
(2) Capacity Utilization Rate 113	Business Cycle Theories 185
(3) The Interest Rate 114	Endogenous Theories 185
(4) The Expected Rate of Profit 114	Exogenous Theories 186
Why Do Firms Invest? 116	Business Cycle Forecasting 186
What Accounts for Our Low Rate of Investment? 116	Analytic Forecasts 187
Graphing the C + I Line 117	Barometric Forecasts 188
The Summing Up of Investment 119	The GDP Gap 189
	Unemployment 190
7 m c	The Problem 190
7 The Government Sector 125	How the Unemployment Rate Is Computed 191
Introduction: The Growing Economic Role of Government 125	Types of Unemployment 194
Government Spending 126	Natural Unemployment Rate 196
Federal Government Spending 126	Inflation 197
State and Local Government Spending 128	Defining Inflation 197
Government Purchases versus Transfer Payments 129	Deflation and Disinflation 198
What Do We Want the Government to Do? 130	The Post-World War II History of Inflation 200
Graphing the $C + I + G$ Line 130	The Construction of the Consumer Price Index 201
Taxes 131	Anticipated and Unanticipated Inflation 202
The Average Tax Rate and the Marginal Tax Rate 131	Theories of the Causes of Inflation 204
Types of Taxes 133	Inflation as a Psychological Process 206
Sources of Federal Revenue 137	Creeping Inflation and Hyperinflation 207
Sources of State and Local Revenue 140	Conclusion 208
The State and Local Fiscal Dilemma 142	
Comparison of Taxes in the United States and Other	1.5
Countries 143	10 Classical and Keynesian
	Economics 215
Two Principles of Taxation: Ability to Pay versus Benefits Received 143	Part I: The Classical Economic System 215
	Supply and Demand Revisited 217
	The Classical Equilibrium: Aggregate Demand Equals Aggregate
(1) Provision of Public Goods and Services 145	Supply 219
(2) Redistribution of Income 145	
(3) Stabilization 145	The Aggregate Demand Curve 219
(4) Economic Regulation 146	The Long-Run Aggregate Supply Curve 221
Conclusion 146	The Short-Run Aggregate Supply Curve 222
	Part II: The Keynesian Critique of the Classical System 224
<b>8</b> Gross Domestic Product 153	Part III: The Keynesian System 228
	The Keynesian Aggregate Expenditure Model 229
What Is Gross Domestic Product? 153	Disequilibrium and Equilibrium 231
A Summing Up: $C + I + G + X_n$ 153	(1) Aggregate Demand Exceeds Aggregate Supply 231
How GDP Is Measured 156	(2) Aggregate Supply Exceeds Aggregate Demand 232
The Expenditures Approach 156	(3) Summary: How Equilibrium Is Attained 232
The Flow-of-Income Approach 159	Keynesian Policy Prescriptions 232
Two Things to Avoid When Compiling GDP 163	
Multiple Counting 164	11 Fiscal Policy and the National
Treatment of Transfer Payments 164	11 Fiscal Policy and the National
GDP versus Real GDP 165	<b>Debt</b> 239
International GDP Comparisons 169	Putting Fiscal Policy into Perspective 239
Per Capita Real GDP 169	Part I: The Deflationary Gap and the Inflationary Gap 240
Shortcomings of GDP as a Measure of National Economic Well-	The Deflationary Gap 240
Being 172	The Inflationary Gap 241
Production That Is Excluded 172	Part II: The Multiplier and Its Applications 243
Treatment of Leisure Time 174	The Multiplier 243
Human Costs and Benefits 174	
Tumum Costs una Benefits 1/4	Applications of the Multiplier 244

The Last Word on GDP 176

Personal Income and Payroll Taxes 248

How Deposit Expansion Works 314

Personal Savings 248 Credit Availability 249	The Deposit Expansion Multiplier 314 Cash, Checks, and Electronic Money 316
Unemployment Compensation 249	The Tools of Monetary Policy 316
The Corporate Profits Tax 250	How Open-Market Operations Work 316
Other Transfer Payments 250	The Federal Open-Market Committee 319
Part IV: Discretionary Fiscal Policy 251	Discount Rate Changes 321
Making the Automatic Stabilizers More Effective 251	Changing Reserve Requirements 321
Public Works 252	Summary: The Tools of Monetary Policy 322
Transfer Payments 252	The Fed's Effectiveness in Fighting Inflation
Changes in Tax Rates 252	and Recession 323
Changes in Government Spending 253	The Depository Institutions Deregulation and Monetary Control
Who Makes Fiscal Policy? 254	Act of 1980 325
Part V: The Deficit Dilemma 254	Fiscal and Monetary Policies Should Mesh 326
Deficits, Surpluses, and the Balanced Budget 254	
Deficits and Surpluses: The Record 255	<b>14</b> Twentieth-Century Economic
Why Are Large Deficits So Bad? 257 Will We Ever Be Able to Balance the Budget? 258	Theory 333
Will We Ever Be Able to Balance the Budget? 258 Part VI: The Proposed Balanced Budget Amendment and the Line	
Item Veto 260	The Equation of Exchange 333
Part VII: The Public Debt 261	The Quantity Theory of Money 334
Appendix: The Full-Employment Budget and the Crowding-Out	Classical Economics 336
and Crowding-In Effects 273	Keynesian Economics 338
The Full-Employment Budget 273	The Monetarist School 340
The Crowding-Out and Crowding-In Effects 274	The Importance of the Rate of Monetary Growth 340
The crowding-out and crowding-in Effects 2/4	The Basic Propositions of Monetarism 340
	The Monetary Rule 342
<b>12</b> Money and Banking 279	The Decline of Monetarism 342
Money 279	Supply-Side Economics 343
The Four Jobs of Money 279	The Work Effect 343
Our Money Supply 281	The Saving and Investment Effect 344  The Elimination of Productive Monket Evelopees 344
M1, M2, and M3 282	The Elimination of Productive Market Exchanges 344
Our Growing Money Supply 284	The Laffer Curve 344  Pational Expectations Theory 346
The Demand for Money 285	Rational Expectations Theory 346
The Demand Schedule for Money 287	Conclusion 348
The Liquidity Trap 288	Appendix: The Great Money Debate: The Keynesians versus the Monetarists 355
Determination of the Interest Rate 289	
Banking 291	Preliminary Debate 355 Round 1: How Stable Is V? 355
A Short History of Banking 291	
Modern Banking 294	Velocity and Changes in the Money Supply 355  How Stable Is Velocity in the Short Run? 355
The Creation and Destruction of Money 296	Round 2: The Transmission Mechanism 358
The Creation of Money 296	Introduction 358
The Destruction of Money 297	The Keynesian View 358
Limits to Deposit Creation 297	The Monetarist View 359
Bank Regulation 297	Comparison of Keynesian and Monetarist Transmission
Branch Banking and Bank Chartering 297	Mechanisms 361
The Federal Deposit Insurance Corporation 298	Who Is Right? 361
The Savings and Loan Debacle 300	Round 3: Monetary Policy 362
Will the Commercial Banks Go the Way of the S&Ls? 301	Fighting Recessions 362
Last Word 303	Fighting Inflations 362
	Round 4: A Question of Timing 363
	The Lags 363
13 The Federal Reserve and Monetary	Fiscal Policy Lags 363
Policy 309	Monetary Policy Lags 364
The Federal Reserve System 309	Fiscal versus Monetary Policy: A Summing Up 365
The Federal Reserve District Banks 309	2 social versus monetary 1 oney. A summing op 303
The Board of Governors 310	
Independence of the Board of Governors 311	<b>15</b> A Guide to Macropolicy 371
Legal Reserve Requirements 312	Fighting Recessions 371
Primary and Secondary Reserves 313	Conventional Fiscal Policy 371
Deposit Expansion 314	Conventional Monetary Policy 371
	Controlled Indicated y I Olly 3/1

Conventional Monetary Policy 371

Two Policy Dilemmas 372

Fighting Inflation 372	
Conventional Fiscal Policy 372	
Conventional Monetary Policy 372	
Fighting Inflationary Recessions: Two More Policy	
Dilemmas 372	
Incomes Policies: An Alternate Approach 373	
Wage and Price Controls 373	
Tax-Based Incomes Policies 373	
Attaining a Satisfactory Rate of Economic Growth	374
The Limits of Macropolicy 374	
Conclusion 375	

### 16 Economic Growth and **Productivity** 379

Income Distribution in the United States

The Poor, the Middle Class, and the Rich

The Industrial Revolution and American Economic Development 379 The Economic Growth of the United States 380 Why Is Our Productivity Increasing So Slowly? 381 Our Low Savings Rate 382 Our Low Rate of Investment The Declining Quality and Quantity of Labor 385 Additional Factors Affecting Our Rate of Growth The Productivity of Labor: An International Comparison 390 Conclusion 391 The Law of Diminishing Returns Economic Growth in the Less Developed Countries

### **17** Income Distribution and Poverty 401

Distribution of Wealth in the United States 404 Distribution of Income: Equity and Efficiency What Determines Income Distribution? 407 Poverty in America 410 Poverty Defined 411 Who Are the Poor? 412 Child Poverty 414 The Main Government Transfer Programs 415 Theories of the Causes of Poverty 416 The Conservative View versus the Liberal View 418 Solutions 422 Conclusion 426

#### **18** International Trade 433

More Imports than Exports 433 Part I: The Theory of International Trade 434 Specialization and Trade 434 Domestic Exchange Equations 435

The Terms of Trade 436 Absolute Advantage and Comparative Advantage The Arguments for Protection Tariffs or Quotas 446 Conclusion 447 Part II: The Practice of International Trade 448 What Are the Causes of Our Merchandise Trade Imbalance? 450 What Can We Do? 454 Part III: Our Trade Deficit with Japan and China The Ongoing Trade Negotiations with Japan Japanese Trading Practices 457 The Word War Our Trade Deficit with China 461 Trading with China and Japan: More Differences than Similarities 462 Part IV: Trade Issues at the End of the Century NAFTA 463 **GATT 463** Final Word 464

#### 19 International Finance 469

The Mechanics of International Finance Financing International Trade The Balance of Payments Exchange Rate Systems 472 The Gold Standard 473 The Gold Exchange Standard, 1934–73 The Freely Floating Exchange Rate System, 1973 to the Present 475 How Well Do Freely Floating (Flexible) Exchange Rates Work? 477 The Euro 478 The Peso Crisis and the Decline of the Dollar 478 The East Asian Financial Crisis The Decline and Fall of the American Economy From Largest Creditor to Largest Debtor 481 Warning: Do Not Read beyond This Point if You Think This Book Has a Happy Ending 484 Living beyond Our Means 484 On the Other Hand . . . 484 Closing Word: Will Foreigners Soon Own America?

Glossary 491 Index 497

# INTRODUCTION

What Is
Economics All
About, How Do
We Use This
Book, and Why
Is This Book Different
from All Other
Introductory Economics
Textbooks?

ou've just started reading what may be the shortest introduction with the longest title ever to appear in an introductory economics textbook. Why is this introduction so short? Mainly because I believe in economizing. What is economizing? Funny you should ask.

Economics deals with efficiency—getting rid of waste. That's why this introduction is so short. In fact, that's why this entire book—a textbook and a workbook combined—is so short. We've eliminated most of the extraneous material, the stuff that almost no one reads and virtually no one can understand. What you'll be getting here is 99.44 percent pure introductory economics. If this book were sold in supermarkets, you'd find it with the rest of the no-frills products.

What is economics? Basically, economics is a set of tools that enables us to use our resources efficiently. The end result is the highest possible standard of living.

Economics operates on two levels, the macro level and the micro level. *Macroeconomics* deals with huge aggregates like national output, employment, the money supply, bank deposits, and government spending; and how we can deal with inflation and recession. The first half of the book *Economics* (through Chapter 16) is devoted to macroeconomics.

*Microeconomics* operates on the level of the individual business firm, as well as that of the individual consumer. How does a firm maximize its profits, and how do consumers maximize their satisfaction? These are the types of questions answered by microeconomic analysis, which begins with Chapter 17 of *Economics* (or Chapter 5 of *Microeconomics*).

This book differs from every other introductory text in several ways. Not only is it shorter, but it is much more readable. To modify an old computer term, it is reader-friendly. There are plenty of jokes and anecdotes to illustrate points. And you will be able to do the math even if you are mathphobic.

The format of the book encourages you to read actively rather than passively. You will be asked to answer questions and do calculations. Then you'll check your work against my answers.

An economist is a man who states the obvious in terms of the incomprehensible.

-Alfred A. Knopf

2 Introd

Before you are asked to do any calculations (and we rarely go beyond eighth-grade arithmetic), there will be a section that reviews the math. For example, just before we explore the subject of consumption (Chapter 5 of *Economics* and *Macroeconomics*), which is expressed in trillions of dollars, there is a section showing you how to deal with large numbers. If you happen to be one of those people who doesn't know billions from trillions, then this section is for you. But if you do know your billions and trillions, you can pass this section, go directly into the chapter, collect \$200, and roll the dice again.

Actually, I won't claim that reading this book will be quite as much fun as playing Monopoly, or that you will get to collect \$200 whenever you skip a section. But you do get to save some money.

This text gives you two books in one: the conventional textbook and the workbook. Go into any college bookstore and check out the prices. Almost every standard textbook/workbook package will cost you over \$60, so you're already economizing. And yet, in the words of the Carpenters' golden oldie, "We've only just begun."

# A Brief Economic History of the United States



It was the best of times, it was the worst of times, it was the age of wisdom, it was the age of foolishness, it was the epoch of belief, it was the epoch of incredulity, it was the season of Light, it was the season of Darkness, it was the spring of hope, it was the winter of despair.<sup>1</sup>

## Introduction

These are the opening words of *A Tale of Two Cities*, which Charles Dickens wrote about 140 years ago. He was writing about Paris and London at the time of the French Revolution, but his words could also describe America today.

Our economy is a study in contrasts. We have poverty in the midst of plenty; we have rapidly expanding industries like computer software and medical technology, and we have dying industries like shipbuilding and consumer electronics; we have won the cold war against communism, but we may be losing the trade war against Japan and China.

Which country has the largest economy in the world, the United States or Japan? Believe it or not, our national output is nearly double that of Japan. Then again, there are twice as many Americans as there are Japanese. But Japan has been gaining on us so quickly that the Japanese may overtake us within a couple of generations.

America is the sole superpower and has one of the highest standards of living in the world. Communism, to borrow a phrase from Karl Marx, has been "swept into the dust-bin of history"—at least, the version that dominated the former Soviet Union after the 1920s and Eastern Europe after World War II is no more.

But there are many discordant notes sounding in the United States, ranging from rampant crime and drug use to a permanent underclass to large foreign trade deficits to a standard of living that has not improved much since the early 1970s. Perhaps most alarming, for the first time in our history, the generation that came of age in the 1980s and early 1990s has not done as well as their parents did when *they* came of age.

The baby-boom generation has earned higher incomes than any other generation in history. Indeed, Americans once considered it their birthright to do better than their parents. But that ended some 25 years ago, and a lot of young people are worrying about their futures.

Since the end of the 1990–91 recession, our economy has generated nearly 15 million new jobs. That's the good news. The bad news is that half of them pay less than \$12,000 per year. These so-called McJobs are often low-level, minimum wage, dead-end positions with no health benefits.

The children of the first baby boomers are now entering the job market. And their parents, after paying \$25,000 or more a year to educate them, are wondering about their children's job prospects. In the early 1990s job placement counselors were saying that the job market for college graduates was the worst in recent memory. After four years of decline, hiring of college graduates finally rose in 1994 by about 2 percent over the

The generation that just came of age did not do as well as their parents did.

The job market for college graduates is the worst it's been in recent memory.

<sup>&</sup>lt;sup>1</sup>Charles Dickens, *A Tale of Two Cities* (New York: MacMillan, 1955), p. 3. Original work published 1859.